

WHAT IS CLAIMED IS:

- Sub 87
1. A video data distribution device which comprises:
 - a load measuring unit for measuring a load condition of a network or the video data distribution device;
 - a data extractor for extracting the number of frame data corresponding to a measurement result of said load measuring unit from video data including plural frame data; and
 - a transmitter for transmitting the frame data extracted by the data extractor.
 2. The video data distribution device according to claim 1 wherein based on the measurement result of the load measuring unit, the data extractor extracts all the frame data of the video data when the load is low, and extracts a part of the frame data of said video data when the load is high.
 3. The video data distribution device according to claim 1 wherein the data extractor extracts the number of frame data by thinning frame data, based on the measurement result of the load measuring unit, among the plural frame data.
 4. The video data distribution device according to

claim 1 wherein the data extractor extracts the video data with inter-frame compressed frame data deleted therefrom from the video data having intra-frame compressed frame data and inter-frame compressed frame data based on the measurement result of the load measuring unit, and

the transmitter transmits the video data extracted by the data extractor.

5. The video data distribution device according to claim 1, wherein the video data is MPEG data.

Sub B27 6. The video data distribution device according to claim 5 wherein the data extractor generates the MPEG data with P picture deleted therefrom from MPEG data having I picture and P picture in accordance with the measurement result of the load measuring unit.

7. The video data distribution device according to claim 5 wherein the data extractor generates MPEG data with B picture deleted therefrom from MPEG data having I picture and B picture in accordance with the measurement result of the load measuring unit.

8. The video data distribution device according to claim 5 wherein the data extractor generates MPEG data with P picture and B picture deleted therefrom from MPEG data having I picture, P picture and B picture in accordance with

the measurement result of the load measuring unit.

9. The video data distribution device according to claim 5 wherein the data extractor extracts plural I pictures from MPEG data having plural I pictures at intervals corresponding to the measurement result of the load measuring unit.

10. The video data distribution device according to claim 1 which comprises:

an encoder for encoding image signals from a video camera in real time and generating video data having plural frame data; and

a buffer for temporarily storing the video data generated by the encoder, wherein

by thinning frame data among plural frame data in the video data stored in said buffer, the data extractor extracts the number of frame data based on the measurement result of the load measuring unit from said video data.

11. A video data distribution system which comprises:

a video data distribution device comprising a load measuring unit for measuring a load condition of the video data distribution system, a data extractor for extracting the number of frame data corresponding to a measurement result of said load measuring unit from video data including

plural frame data and a transmitter for transmitting the frame data extracted by the data extractor via a network; and

a video data playback device for receiving the frame data transmitted from the transmitter of said video data distribution device via said network and playing back the received frame data.

12. The video data distribution system according to claim 11, wherein the load measuring unit measures a load of a processor for controlling operation of the video data playback device.

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13. The video data distribution system according to claim 12 wherein plural video data playback devices are connected to the network, and

one frame data transmitted from the transmitter of the video data distribution device onto said network is received by each of said plural video data playback devices.

14. The video data distribution system according to claim 11 wherein the video data playback device transmits a data transfer request in which data amount is designated to the video data distribution device plural times, and

upon receiving said data transfer request plural times, the video data distribution device transmits frame data based on the data amount designated by each data

transfer request for said each data transfer request.

15. The video data distribution system according to claim 12 wherein the video data playback device transmits a data transfer request in which video data is designated, and upon receiving said data transfer request, the video data distribution device transmits plural packets having a part of frame data of said video data at predetermined intervals.

16. A video data distribution method which comprises:

a transmission level determining step of determining a transmission level in accordance with a load of a video data distribution system;

a data extracting step of extracting the number of frame data corresponding to the transmission level determined by said transmission level determining step from video data including plural frame data; and

a transmitting step of transmitting the frame data extracted by said data extracting step.

17. The video data distribution method according to claim 16, wherein the transmission level determining step is performed in a video data playback device, and comprises
(a) a load measuring step of measuring a load of a processor for controlling operation of the video data

playback device,

(b) a determining step of determining a transmission level in accordance with a measurement result of the load measuring step, and

(c) a transmission level transmitting step of transmitting the transmission level determined by the determining step from the video data playback device to the video data distribution device.

18. The video data distribution method according to claim 16, which comprises a playback step in which the video data playback device receives the frame data transmitted by the transmitting step and plays back the received frame data.

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19. The video data distribution method according to claim 16 wherein in the transmission level determining step, when the video data playback device plays back the video data with fast speed, the transmission level is determined in such a manner that the video data with a part of frame data thinned from plural frame data included in the video data is extracted, and when fast playback is not performed, the transmission level is determined in such a manner that the frame data of the video data is not thinned.

20. The video data distribution method according to claim 16 wherein in the data extracting step, when the video data playback device quickly forwards and plays back the

video data including plural frame data and voice data, said voice data is deleted from the video data and the number of frame data corresponding to the transmission level is extracted to generate video data, and

in the transmitting step, the video data generated by said data extracting step is transmitted.

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